



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PROGRAM DEVELOPMENT & ADMINISTRATION DIVISION  
SUITE 600, JAMES K. POLK BUILDING  
505 DEADERICK STREET  
NASHVILLE, TENNESSEE 37243-1402  
(615) 741-3301

JOHN C. SCHROER  
COMMISSIONER

BILL HASLAM  
GOVERNOR

TO: Will Reid, Assistant Chief Engineer of Operations

FROM: *RP* Ronnie Porter, Director, Program Development and Administration Division

SUBJECT: **Proprietary Item Request and Justification for City of Shelbyville for signal cabinets, controllers and video detection**

I, Ronnie Porter, Director of the Program Development and Administration Division, request approval for the City of Shelbyville to be certified to utilize the following proprietary item(s) over the next three years, where Federal funding is used:

Iteris Video Cameras  
Siemens EPAC Controller

**Justification**

The City already uses these products at all signal installations thus making it easier to maintain and not have to order different products. Using the same brand of controllers makes coordination of the signals easier. Please see attached letter for further justification.

If you have any questions or comments, please contact **Kimery Grant** at (615)741-5323 with the Local Programs Development Office or at [Kimery.Grant@tn.gov](mailto:Kimery.Grant@tn.gov).

I, Ronnie Porter, Program Development and Administration Division Director, of the Tennessee Department of Transportation, do hereby certify that in accordance with the requirements of 23 CFR 635.411(a) (2) that the patented or proprietary item(s) as listed above is essential for the synchronization with existing facilities or no equally suitable alternative exists for this patented or proprietary item as listed above.

*Kimery Grant* - Director, Traffic Operations  
Recommendation for Approval

*Will Reid*  
Assistant Chief Engineer of Operations

*1/29/18*  
Date

*City of*  
**SHELBYVILLE**  
*Tennessee*

January 9, 2018

Mr. Will Reid, P.E.  
Assistant Chief Engineer of Operations  
Tennessee Department of Transportation  
James K. Polk Bldg., Suite 600  
505 Deadrick Street  
Nashville, TN 37243-1402

RE: PIN 125452.00 Main Street (US 231) (SR 10) at Palmer Drive Signal Installation  
City of Shelbyville - Proprietary Items request for Federally Funded Projects.

Dear Mr. Reid:

The City of Shelbyville is requesting proprietary item product certification of the following products. These items will be used on signal projects with Federal and/or State funds over the next three years. Below are the items requested for TDOT approval and certification:

1. Signal Equipment:
  - a. Iteris Video Cameras
  - b. Siemens EPAC Controller

In order to stay consistent with all of our other signal installations, the City of Shelbyville would like to request that an Eagle cabinet and Siemens EPAC controller be used for this project. Additionally, there is a high volume of commercial truck traffic on S.R. 10 (US 231). From a maintenance standpoint, the City has found that installations of in-pavement loops deteriorate much more rapidly in areas with high truck volumes and require more maintenance, thus having a high life-cycle cost in these situations as compared to video detection systems. As such, video is now the City standard detection device used throughout the City. Therefore, the City of Shelbyville would like to request that an Iteris video detection system be used for this project.

The City has Iteris video detection at 21 of the total 28 intersections. Our service technicians have had a positive experience with trouble-shooting and maintaining this type of video detection system. From a practical standpoint, it is difficult and costly to maintain video systems from a variety of manufacturers. Therefore, the City is attempting to move forward with a single video system in order to have synchronicity in the system.

The City has all 28 intersections with Siemens EPAC Controllers. From a maintenance standpoint, the City's technicians have been trained on and are very familiar with the Siemens EPAC Controllers. In addition the use of the same controller throughout allows for synchronicity of the signal system. All inventory spare stock for replacement due to failure consists of Iteris Video Camera hardware and Siemens EPAC Controllers.

Thank you for considering these requests to better serve the public with increase efficiency through normal operations and maintenance activities. If you have any questions, feel free to contact me at 931.684.2644

Sincerely,

A handwritten signature in black ink that reads "Eric J. Pierce". The signature is written in a cursive, flowing style.

Eric Pierce

Public Works Director, City of Shelbyville, TN